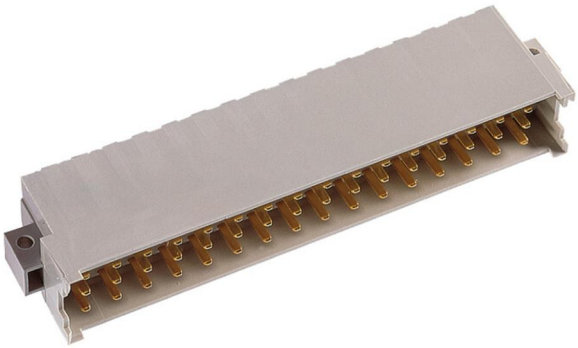
Product Data Sheet

DIN 41612 Male 90°, type F,
Part No. 109-40064



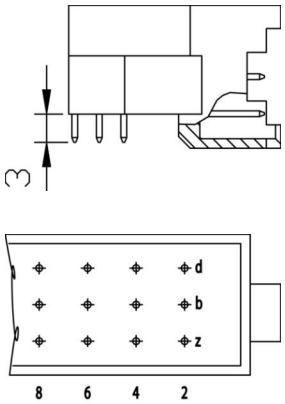


Illustration similar

Perpendicular

Through Hole

Power

Rugged

- Termination length 3 mm
- 48 contacts
- solder
- performance level 2

» to product on www.ept.de

» to product group DIN 41612

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Technical Specifications

Basics

Specification	IEC 60603-2 (DIN 41612)
Performance Level	2
No. of Contacts	48
Termination Technology	solder
Termination Length	3 mm
Operating Temperature Range	-55°C to +125°C

Material

Insulator Material	PBT glass filled UL 94 V-0
CTI value *IEC 60112*	200
Contact Material	Copper alloy

Mechanical

Pitch	5.08 x 3.81 mm
Mating Force	< 75 N
Separating Force per Pin	>0.2 N
Durability	400 mating cycles

Electrical

Operational Current	5.6 A
Contact Resistance	<15 mΩ
Clearance and Creepage	cr: ≥ 3.0 mm, cl: ≥ 1.6 mm
Insulation Resistance	$>10^6$ MΩ
Test Voltage	1550 V

Processing

Soldering Temperature	to 260°C

Approval / Compliance

UL file	E130314
Environment	RoHS compliant

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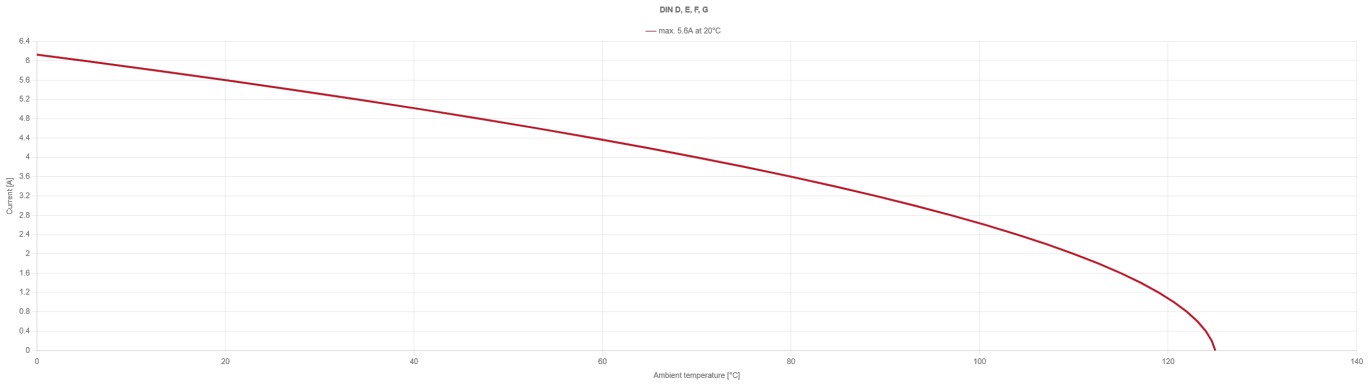
Derating Diagram



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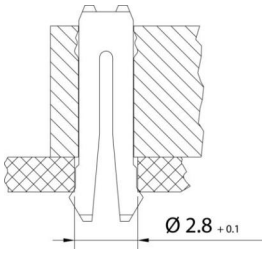
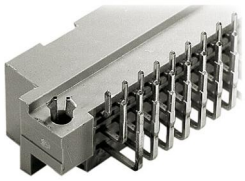
Options

Board Lock 90°

Suitable for connectors with type B, C, D, E, F, G male connectors and R female connectors





Type of Insertion	Forces			PCB Thickness	Part Number
	F_m	not soldered F_h	soldered F_h		
Locked	< 30 N	> 10 N	> 20 N	≤ 1.6 mm	109-40064C1
Under Tension	< 30 N	> 7.5 N	> 20 N	> 1.6 mm	

Modifications

Available on request

- Pre-mating and late-mating contacts
- Contact arrangement
- Performance levels I + III or customer-specific
- Special contact length

Drawings

Component data in 2D and 3D format you can download here:

» PDF » 3D IGES » 3D STEP » 3D PDF